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In re Application of: HERZBERG Serial No.: 10/511,859

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## In the Specification:

Please amend the last full paragraph of Page 2 as follows:

In some embodiments of the invention, the performance analyzer provides information on the modem connection in different physical operation layers and shows cross-references between the different physical layers. Optionally, the performance analyzer provides information on possible connections between data retransmissions or connection retrains and noise effects or other modem acts which caused the retransmissions or retrains.

Please amend the last full paragraph of Page 3 as follows:

Optionally, displaying information on the determined characteristics comprises providing information on noise levels on the connection. Optionally, providing information on noise levels on the connection comprises suggesting possible sources of the noise. Optionally, displaying information on the determined characteristics comprises providing information on effects in upper physical-layers caused by the noise levels on the connection.